

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052019\  
 Data File : VW010462.D  
 Acq On : 20 May 2019 22:19  
 Operator : SY/VA  
 Sample : K2944-03  
 Misc : 6.49G/5ML/MSVOA W/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FESB-3(4.5-5)

Quant Time: May 21 06:50:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 21 06:38:43 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 105601   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 196829   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 174429   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 75971    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 68472    | 62.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 125.64% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 63323    | 53.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.04% |          |
| 50) Toluene-d8              | 10.32 | 98   | 240778   | 52.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.54% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 90240    | 49.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.30%  |          |

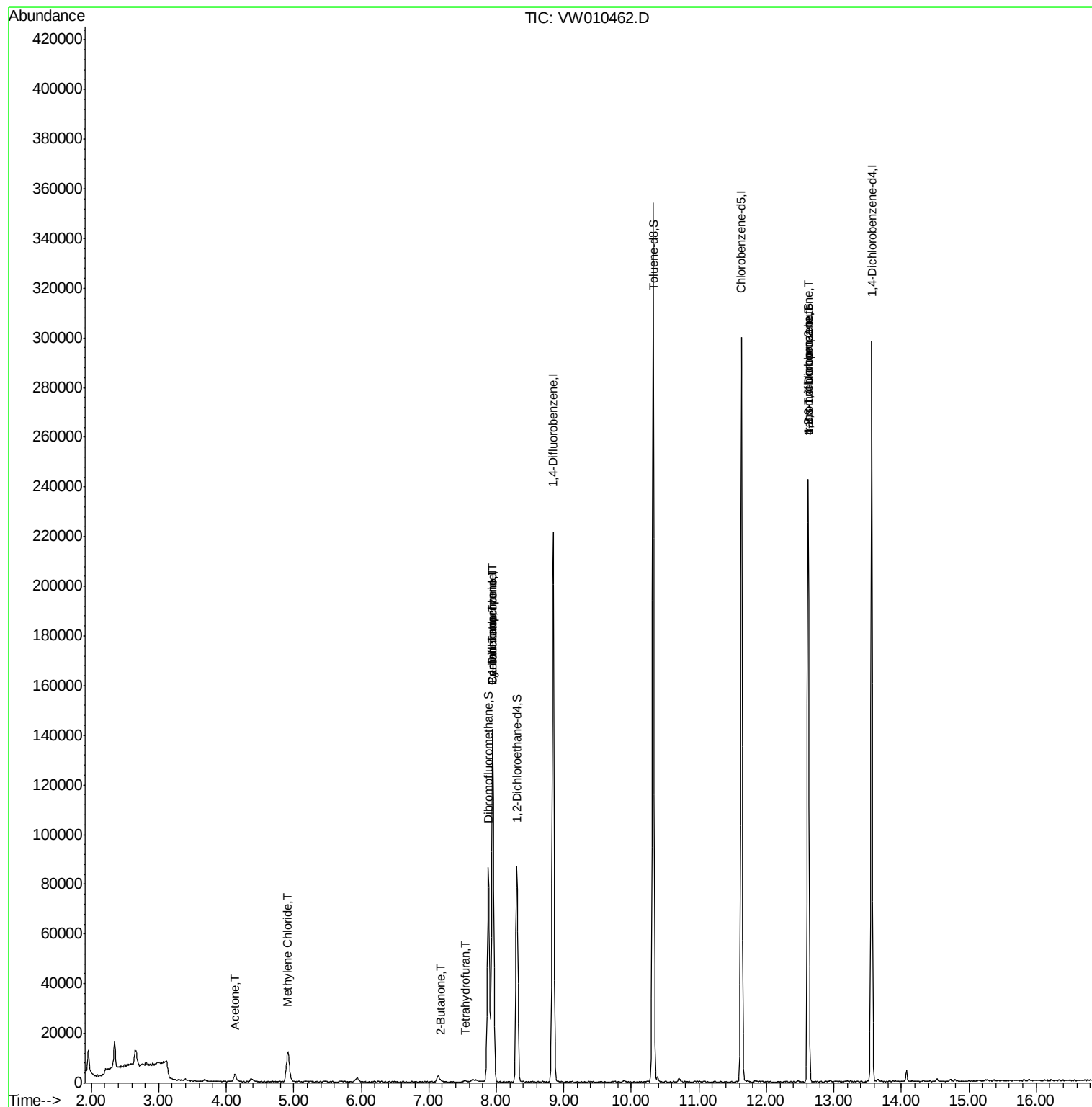
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.21  | 85   | 18       | Below Cal | #      | 42     |
| 13) Acrolein                   | 3.79  | 56   | 18       | Below Cal | #      | 1      |
| 16) Acetone                    | 4.13  | 43   | 5426     | 24.388    | ug/l   | 94     |
| 20) Methylene Chloride         | 4.92  | 84   | 9998     | 2.879     | ug/l # | 93     |
| 25) 2-Butanone                 | 7.18  | 43   | 319      | 1.002     | ug/l # | 45     |
| 29) Tetrahydrofuran            | 7.54  | 42   | 408      | 1.894     | ug/l # | 75     |
| 31) Cyclohexane                | 7.95  | 56   | 2127     | 1.028     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.95  | 75   | 8415     | 4.589     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 11439    | 5.783     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 43159    | 55.967    | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 43159    | 116.804   | ug/l # | 14     |

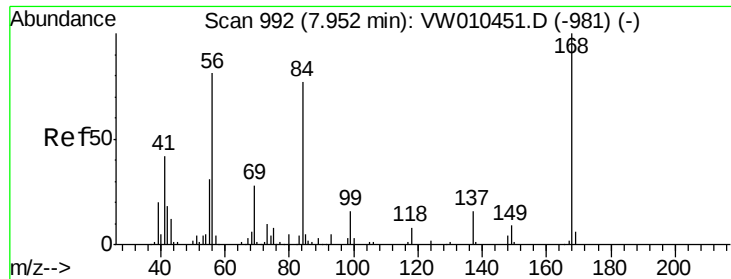
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052019\  
Data File : VW010462.D  
Acq On : 20 May 2019 22:19  
Operator : SY/VA  
Sample : K2944-03  
Misc : 6.49G/5ML/MSVOA W/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
FESB-3(4.5-5)

Quant Time: May 21 06:50:02 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W052019S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 21 06:38:43 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

Instrument :

MSVOA\_W

ClientSampleId :

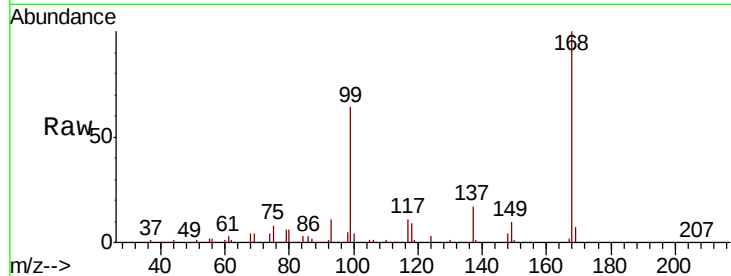
FESB-3(4.5-5)

Tot Ion:168 Resp: 105601

Ion Ratio Lower Upper

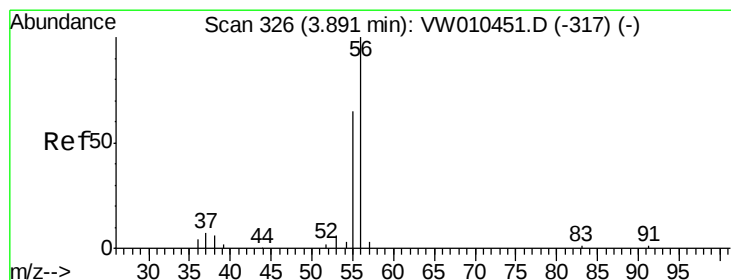
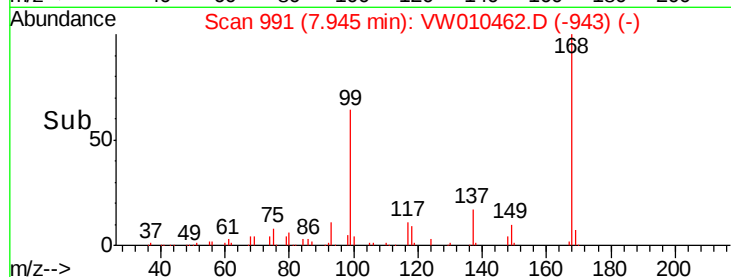
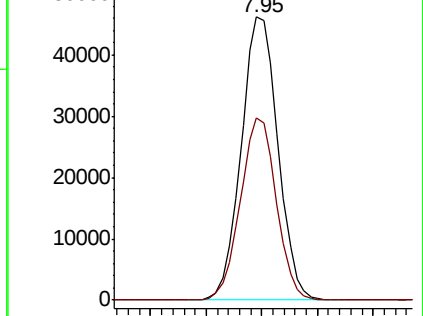
168 100

99 64.4 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#13

Acrolein

Concen: Below Cal

RT: 3.79 min Scan# 309

Delta R.T. -0.10 min

Lab File: VW010462.D

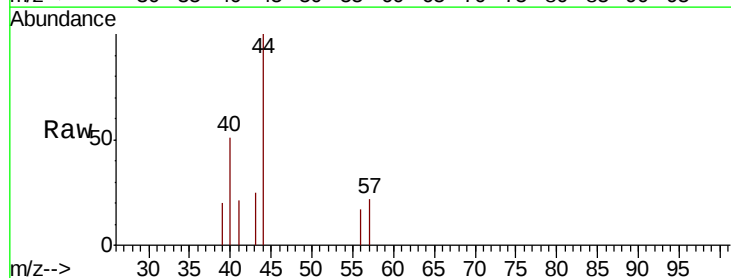
Acq: 20 May 2019 22:19

Tgt Ion: 56 Resp: 18

Ion Ratio Lower Upper

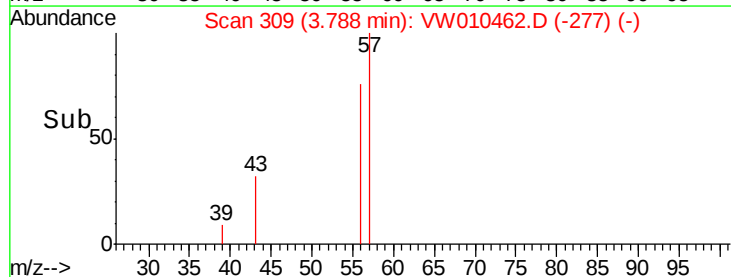
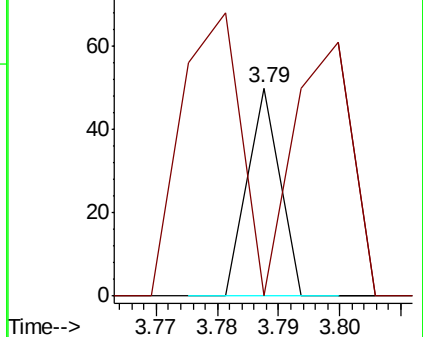
56 100

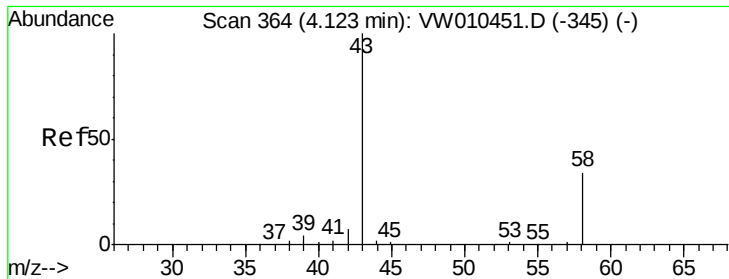
55 250.0 57.9 86.9#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW





#16

Acetone

Concen: 24.388 ug/l

RT: 4.13 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

Instrument :

MSVOA\_W

ClientSampleId :

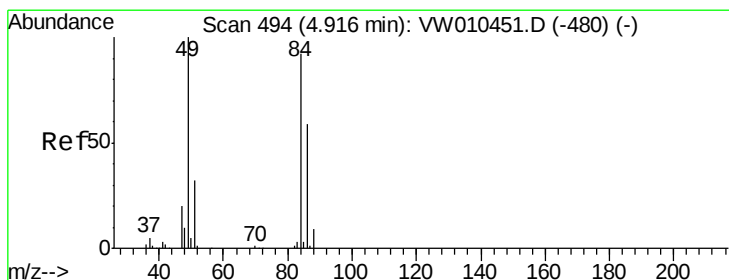
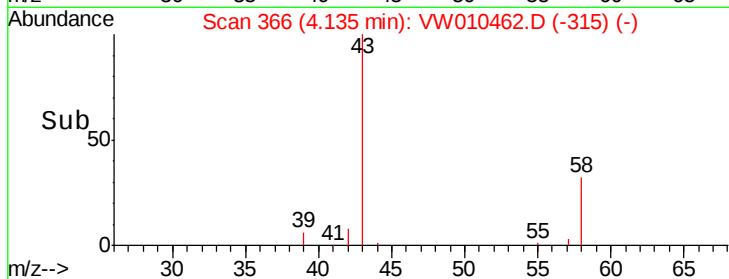
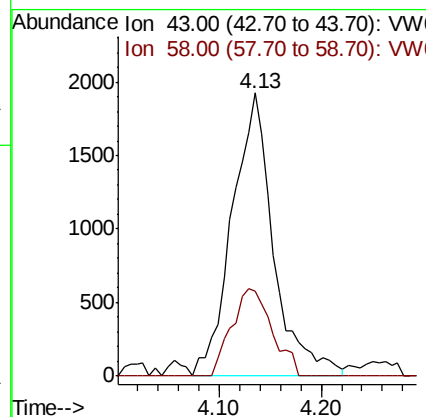
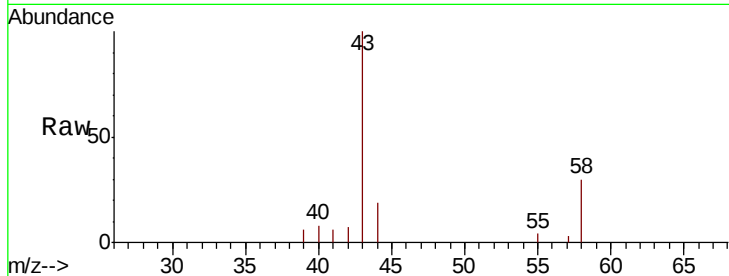
FESB-3(4.5-5)

Tot Ion: 43 Resp: 5426

Ion Ratio Lower Upper

43 100

58 30.1 27.0 40.4



#20

Methylene Chloride

Concen: 2.879 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

Tgt Ion: 84 Resp: 9998

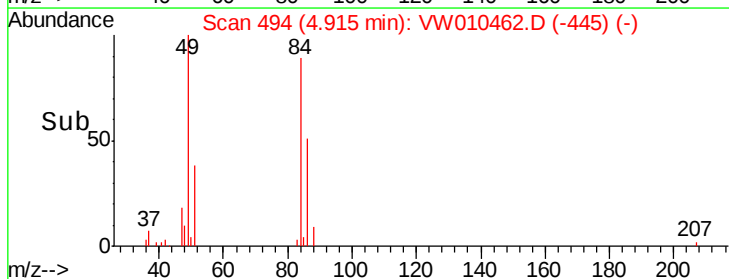
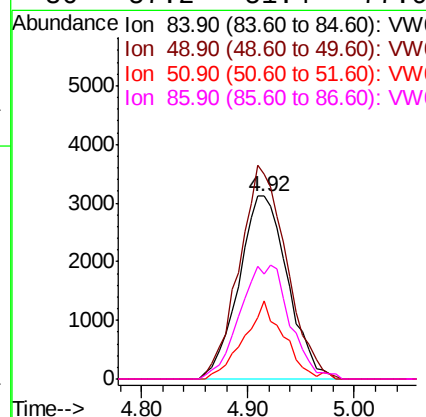
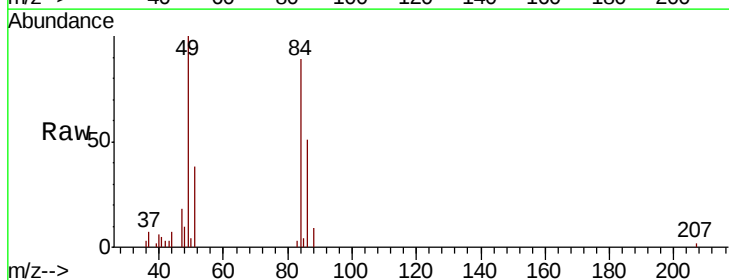
Ion Ratio Lower Upper

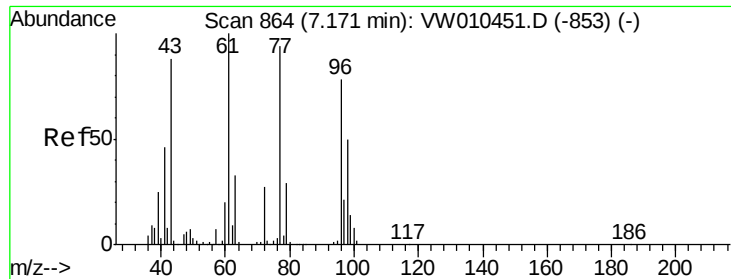
84 100

49 112.0 87.2 130.8

51 42.5 27.7 41.5#

86 57.2 51.4 77.0





#25

2-Butanone

Concen: 1.002 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

Instrument :

MSVOA\_W

ClientSampled :

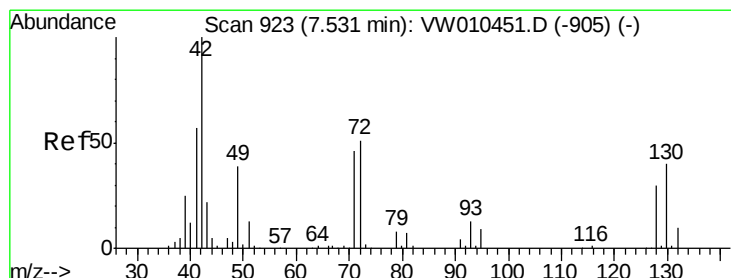
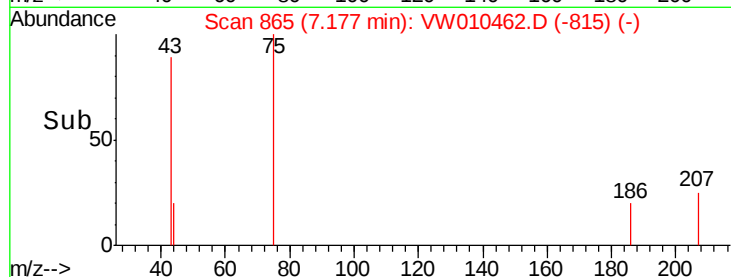
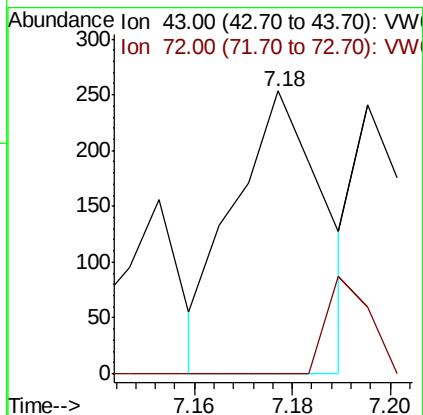
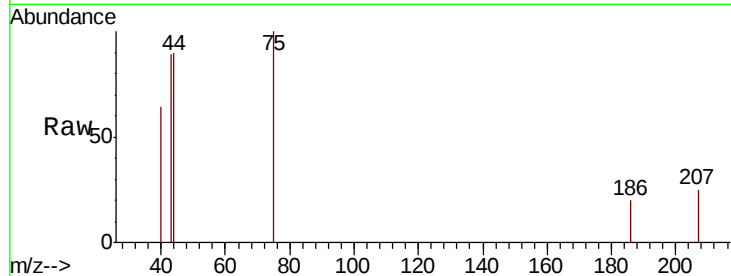
FESB-3(4.5-5)

Tot Ion: 43 Resp: 319

Ion Ratio Lower Upper

43 100

72 0.0 24.1 36.1#



#29

Tetrahydrofuran

Concen: 1.894 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

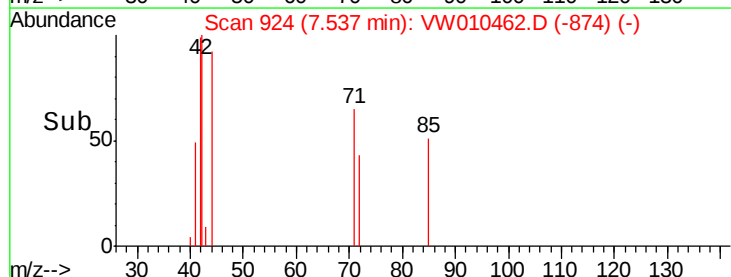
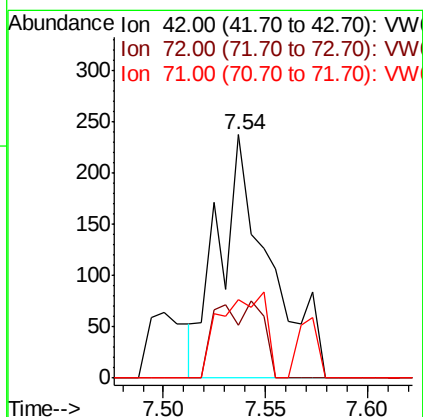
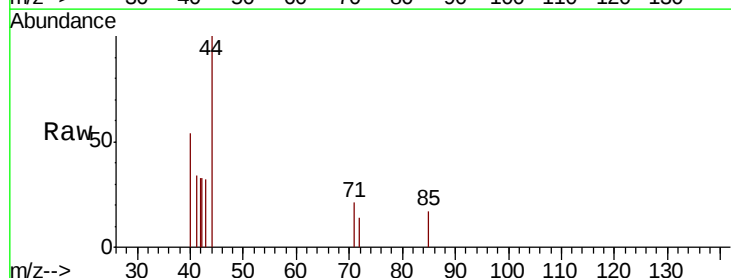
Tgt Ion: 42 Resp: 408

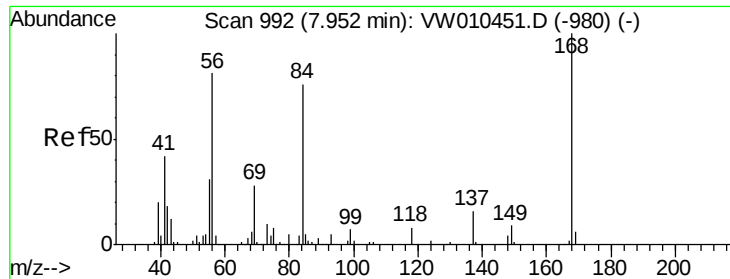
Ion Ratio Lower Upper

42 100

72 28.9 38.5 57.7#

71 31.6 36.5 54.7#

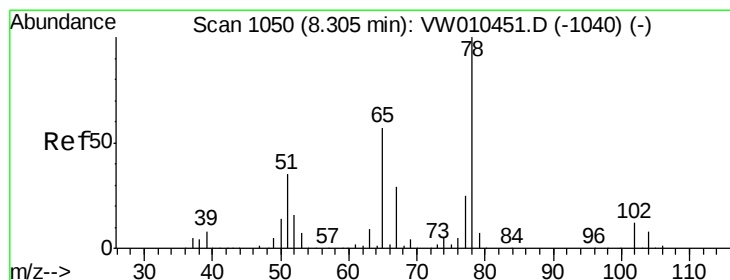
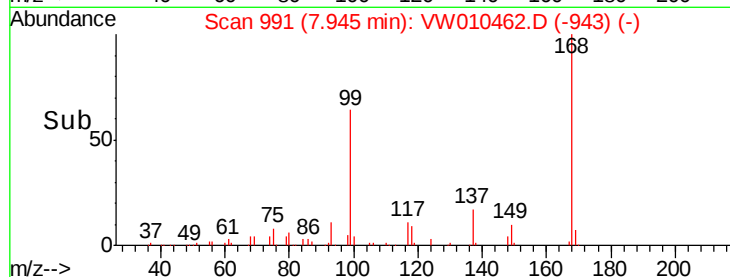
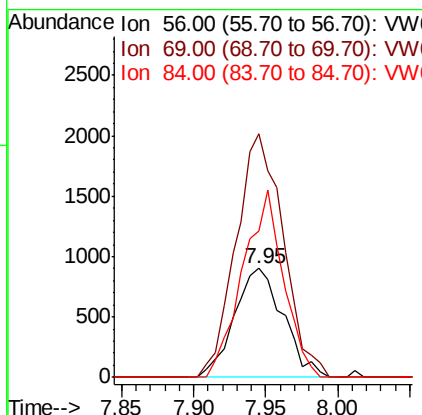
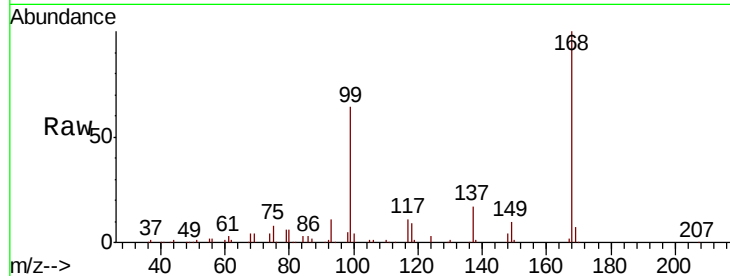




#31  
Cyclohexane  
Concen: 1.028 ug/l  
RT: 7.95 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: VW010462.D  
Acq: 20 May 2019 22:19

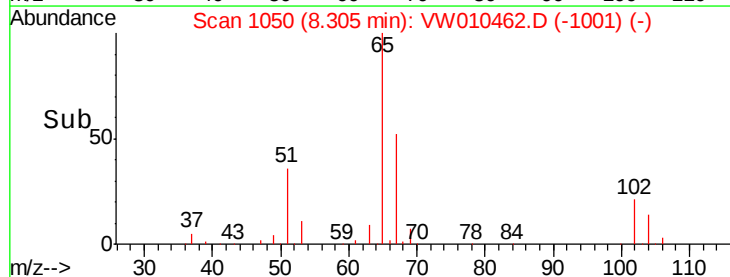
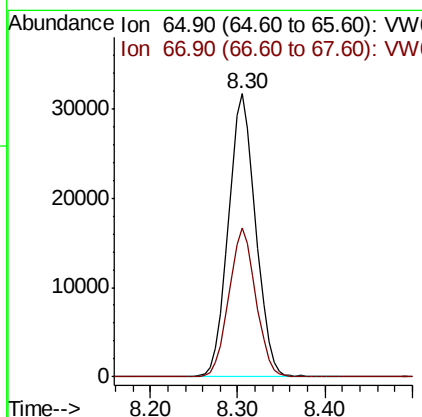
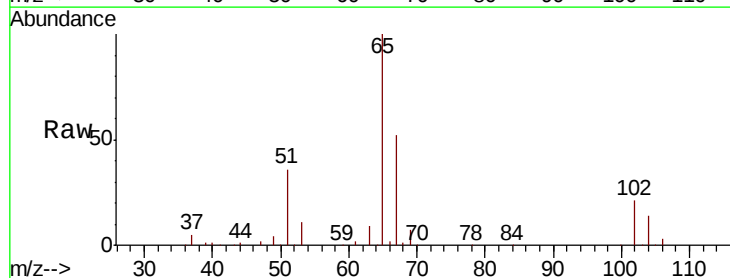
Instrument :  
MSVOA\_W  
ClientSampleId :  
FESB-3(4.5-5)

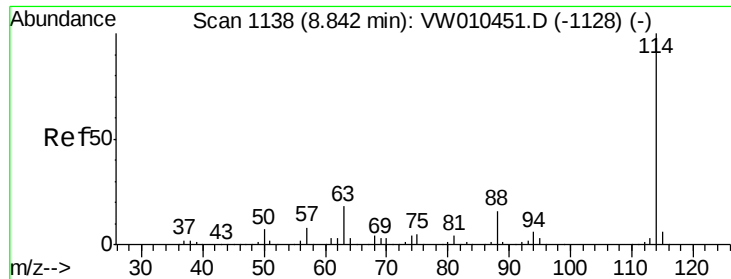
Tot Ion: 56 Resp: 2127  
Ion Ratio Lower Upper  
56 100  
69 223.0 28.2 42.2#  
84 134.2 75.8 113.8#



#33  
1,2-Dichloroethane-d4  
Concen: 62.819 ug/l  
RT: 8.30 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: VW010462.D  
Acq: 20 May 2019 22:19

Tgt Ion: 65 Resp: 68472  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 103.6

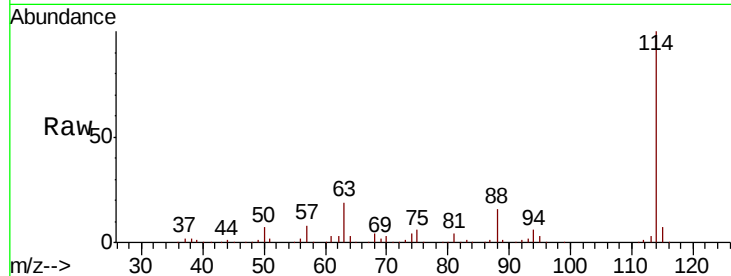




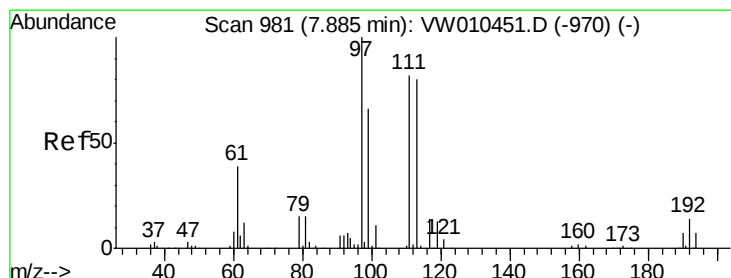
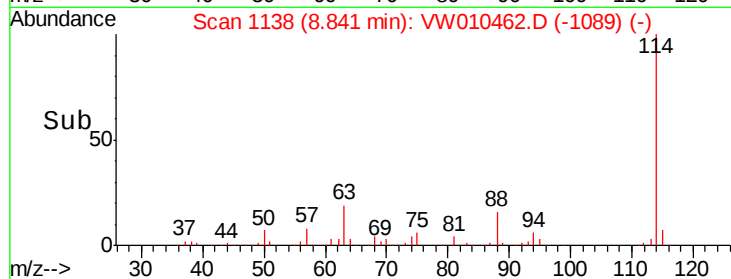
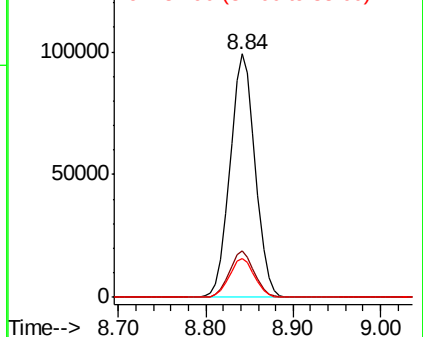
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.84 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: VW010462.D  
Acq: 20 May 2019 22:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
FESB-3(4.5-5)

Tot Ion:114 Resp: 196829  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 36.0  
88 16.2 0.0 32.0

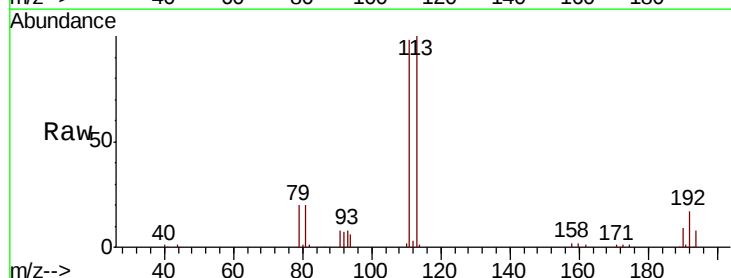


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VW  
Ion 87.90 (87.60 to 88.60): VW

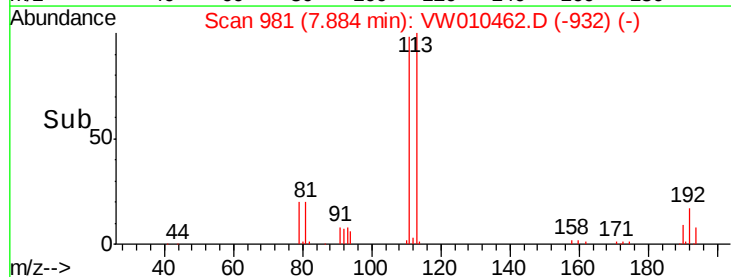
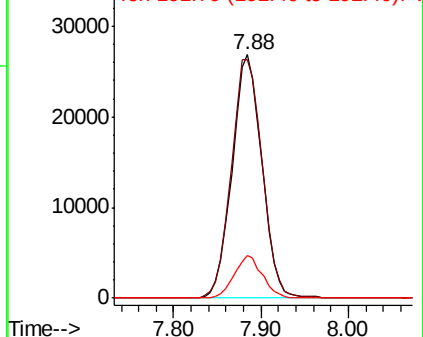


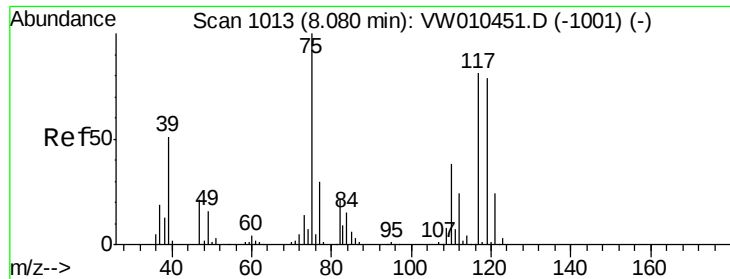
#35  
Dibromofluoromethane  
Concen: 53.020 ug/l  
RT: 7.88 min Scan# 981  
Delta R.T. -0.00 min  
Lab File: VW010462.D  
Acq: 20 May 2019 22:19

Tgt Ion:113 Resp: 63323  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.2 123.4  
192 16.5 14.3 21.5



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

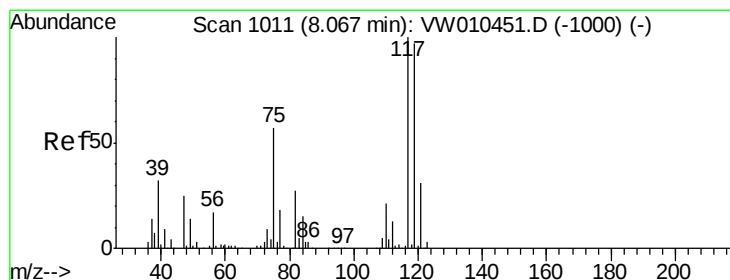
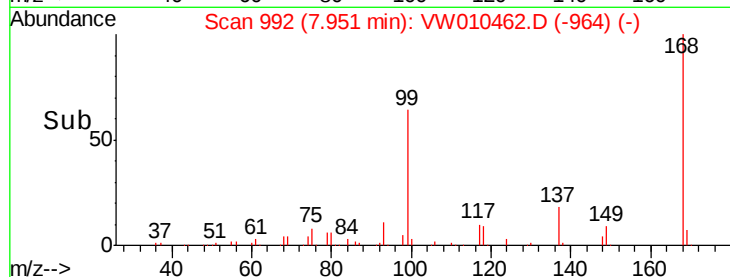
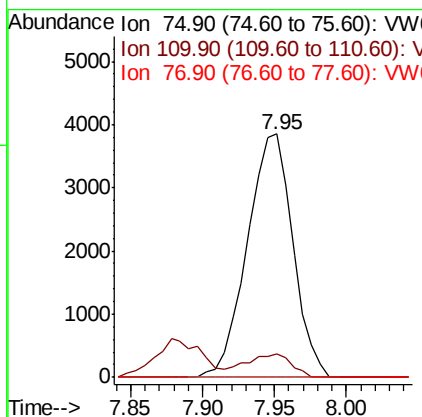
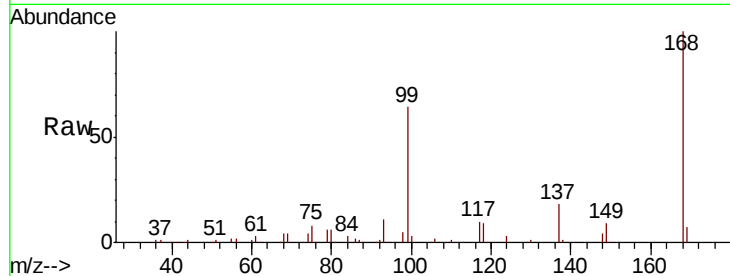




#36  
 1,1-Dichloropropene  
 Concen: 4.589 ug/l  
 RT: 7.95 min Scan# 992  
 Delta R.T. -0.13 min  
 Lab File: VW010462.D  
 Acq: 20 May 2019 22:19

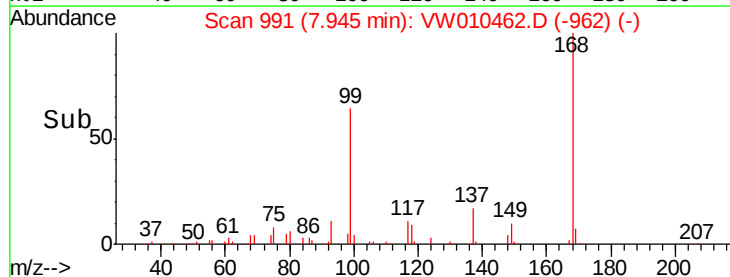
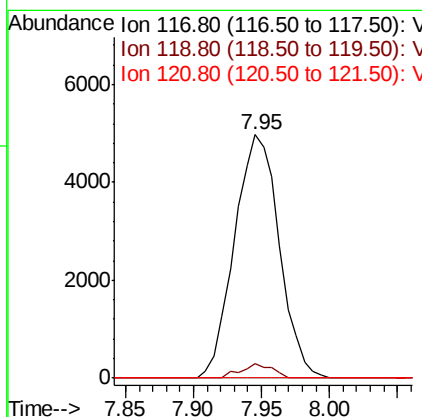
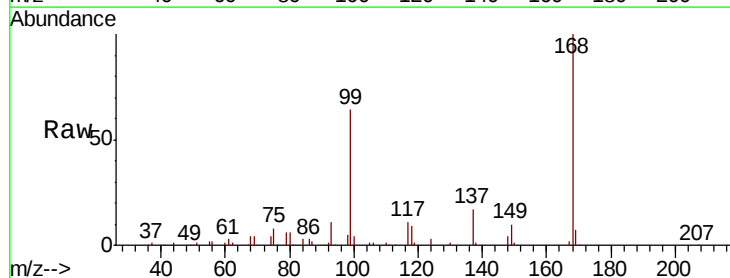
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 FESB-3(4.5-5)

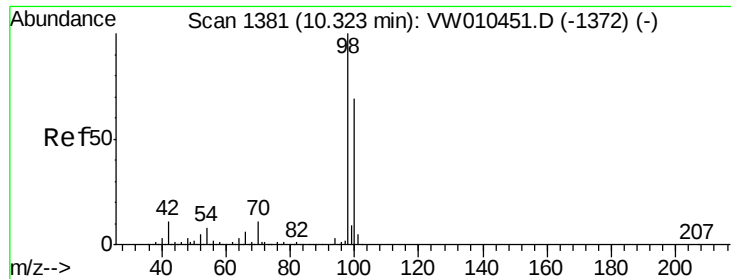
| Tot Ion   | 75    | Resp  | 8415  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.6   | 19.2  | 57.6# |
| 77        | 0.0   | 25.2  | 37.8# |



#38  
 Carbon Tetrachloride  
 Concen: 5.783 ug/l  
 RT: 7.95 min Scan# 991  
 Delta R.T. -0.12 min  
 Lab File: VW010462.D  
 Acq: 20 May 2019 22:19

| Tgt Ion   | 117   | Resp  | 11439  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 5.9   | 77.4  | 116.0# |
| 121       | 0.0   | 25.0  | 37.6#  |





#50

Toluene-d8

Concen: 52.772 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

Instrument :

MSVOA\_W

ClientSampleId :

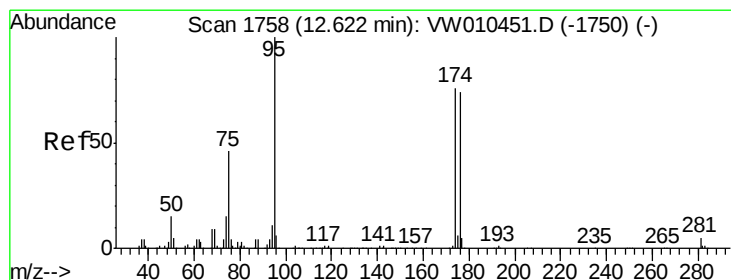
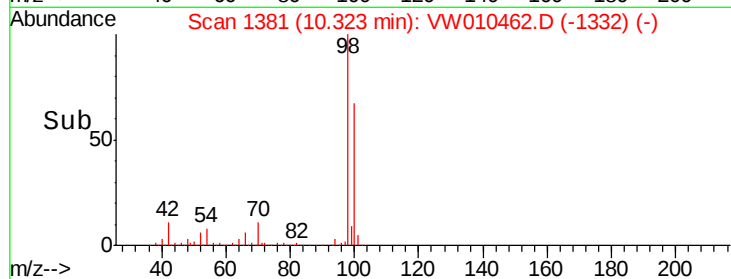
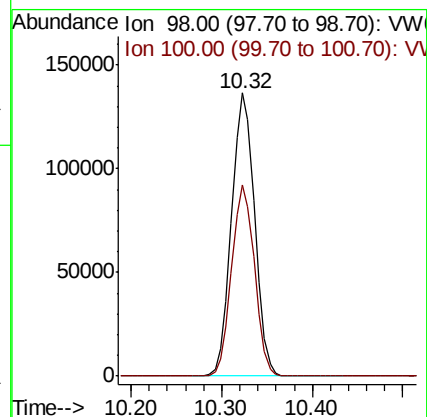
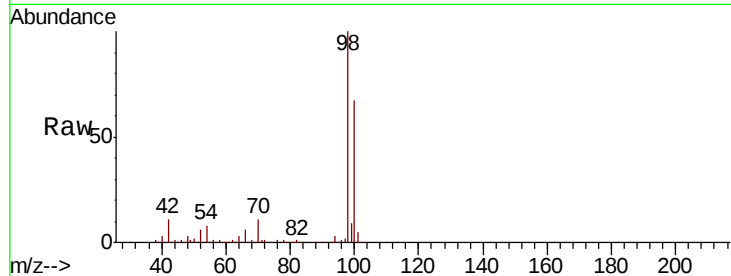
FESB-3(4.5-5)

Tot Ion: 98 Resp: 240778

Ion Ratio Lower Upper

98 100

100 67.1 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 49.655 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

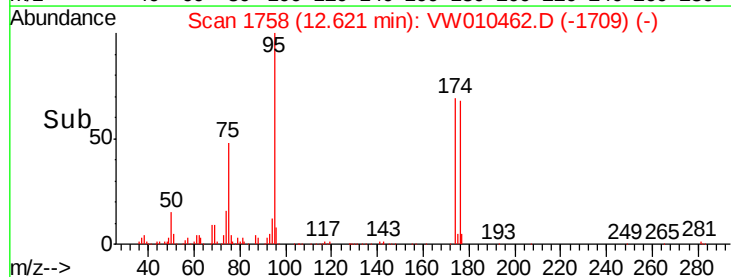
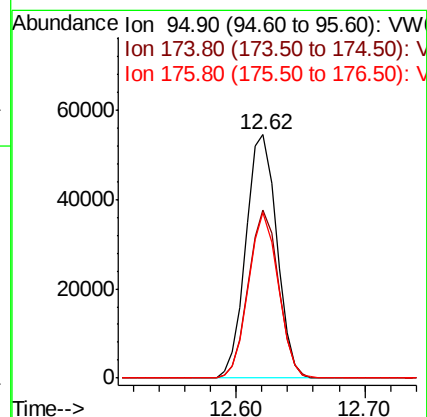
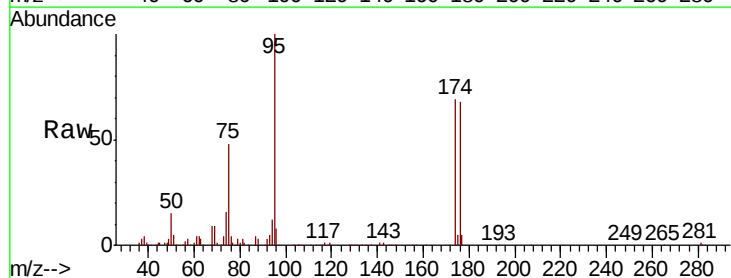
Tgt Ion: 95 Resp: 90240

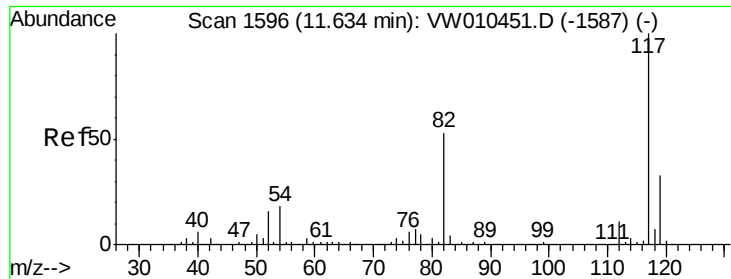
Ion Ratio Lower Upper

95 100

174 67.7 0.0 148.6

176 65.7 0.0 144.2

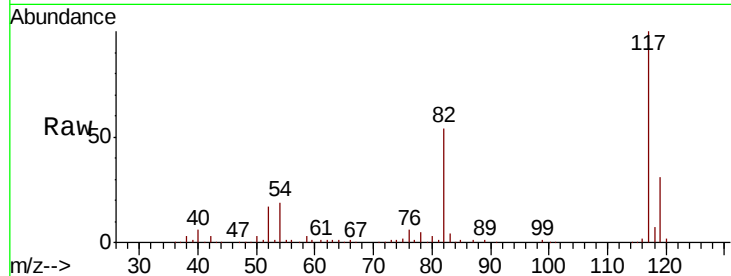




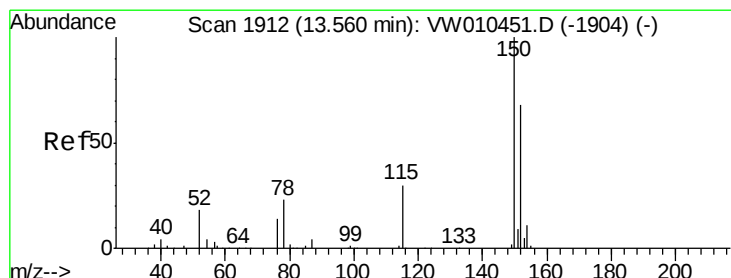
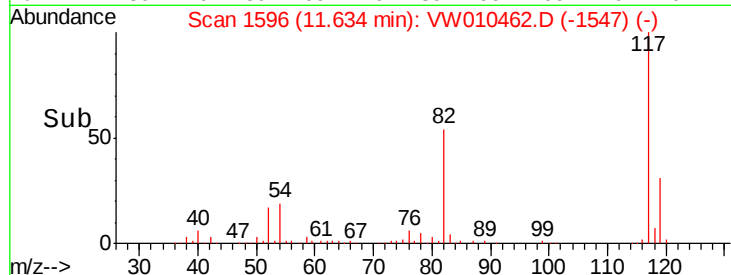
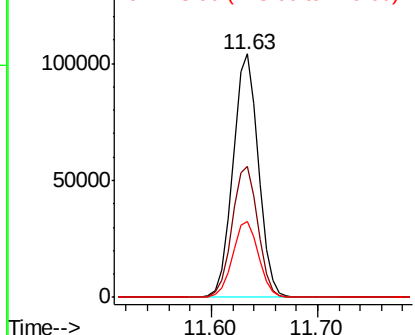
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW010462.D  
Acq: 20 May 2019 22:19

Instrument :  
MSVOA\_W  
ClientSampleId :  
FESB-3(4.5-5)

Tot Ion:117 Resp: 174429  
Ion Ratio Lower Upper  
117 100  
82 53.8 42.8 64.2  
119 31.0 26.3 39.5

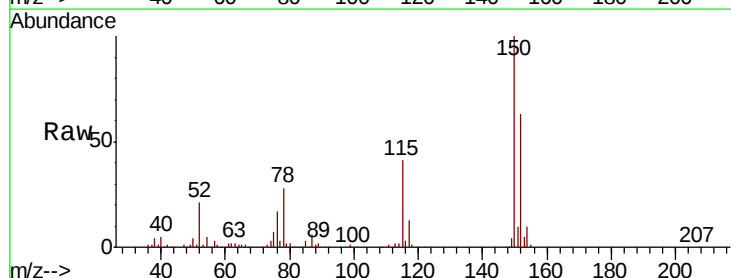


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

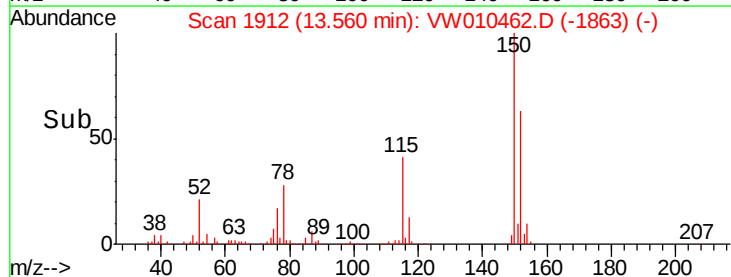
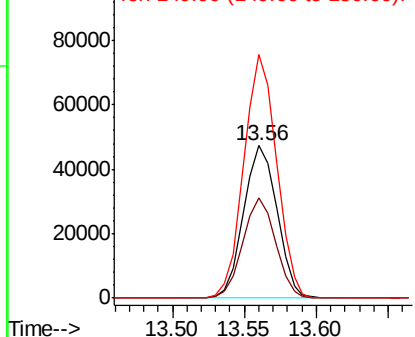


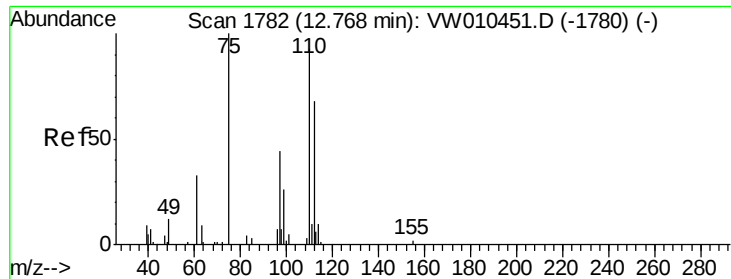
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. -0.00 min  
Lab File: VW010462.D  
Acq: 20 May 2019 22:19

Tgt Ion:152 Resp: 75971  
Ion Ratio Lower Upper  
152 100  
115 64.0 30.3 91.0  
150 156.4 0.0 349.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 55.967 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

Instrument :

MSVOA\_W

ClientSampleId :

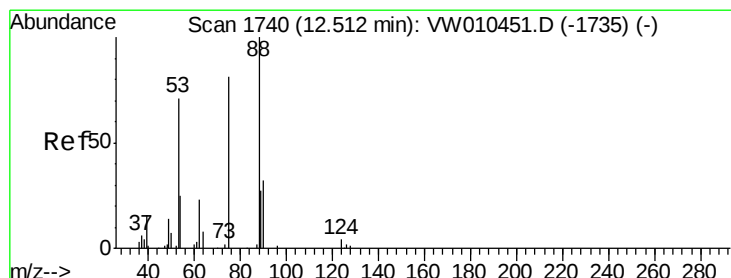
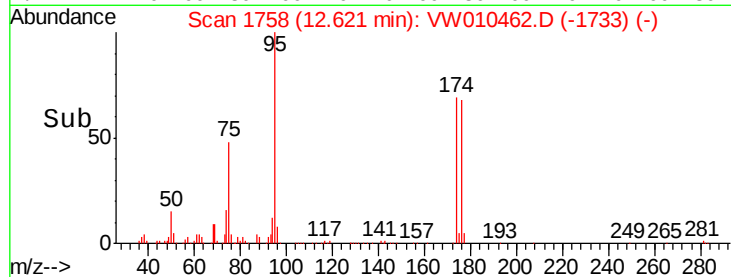
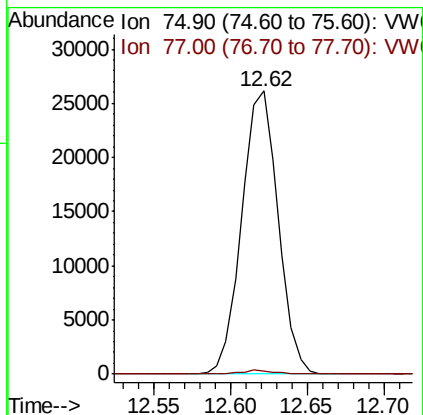
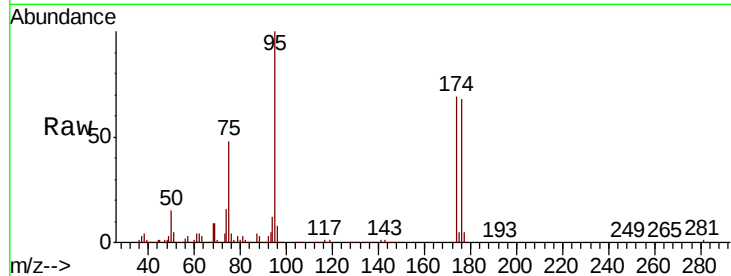
FESB-3(4.5-5)

Tot Ion: 75 Resp: 43159

Ion Ratio Lower Upper

75 100

77 1.2 170.0 510.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 116.804 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010462.D

Acq: 20 May 2019 22:19

Tgt Ion: 75 Resp: 43159

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

89 0.0 39.5 59.3#

